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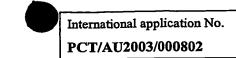
## INTERNATIONAL PRELIMINARY EXAMINATION REPORTIPO

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 108695	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminar Examination Report (Form PCT/IPEA/416).						
International Application No.	International Filing Dat (day/month/year)	Priority Date (day/n	nonth/year)					
PCT/AU2003/000802	26 June 2003	26 June 2002						
International Patent Classification (IPC) or national classification and IPC								
Int. Cl. <sup>7</sup> G01V3/14, G01R 33/20								
Applicant								
QR SCIENCES TECHNOLOGII	ES PTY LTD et al							
·			•					
<ol> <li>This international preliminary examinat is transmitted to the applicant according</li> </ol>		red by this International Preliminary Ex	amining Authority and					
2. This REPORT consists of a total of 3	sheets, including this co	ver sheet.						
	, ,	of the description, claims and/or drawing	ngs which have been					
amended and are the basis for thi 70.16 and Section 607 of the Ad	s report and/or sheets con	taining rectifications made before this A	uthority (see Rule					
,			·					
These annexes consist of a total of	of sheet(s).							
3. This report contains indications relating	g to the following items:	(						
I X Basis of the report								
II Priority		,						
III Non-establishment of op	inion with regard to nove	ty, inventive step and industrial application	bility					
IV Lack of unity of invention	on ·							
	V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents cited								
VII Certain defects in the int	ernational application							
VIII Certain observations on	VIII Certain observations on the international application .							
Date of submission of the demand	1,	ate of completion of the report						
31 December 2003	f	21 January 2004						
Name and mailing address of the IPEA/AU	4	uthorized Officer						
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRA	T TA	OR BL						
E-mail address: pct@ipaustralia.gov.au	1.4	OBERT BARTRAM						
Facsimile No. (02) 6285 3929		Telephone No. (02) 6283 2215						

International application No.
PCT/AU2003/000802

I.	Basis of the	Basis of the report					
1.		ne elements of the international application:*					
	X the interna	the international application as originally filed.					
	the descrip	otion, pages, as originally filed,					
		pages , filed with the demand,					
		pages, received on with the letter of					
	the claims,	, pages , as originally filed,					
	•	pages , as amended (together with any statement) under Article 19,					
		pages, filed with the demand,					
		pages, received on with the letter of					
	the drawin	ngs, pages, as originally filed,					
		pages, filed with the demand,					
		pages, received on with the letter of					
	the sequen	ice listing part of the description:					
		pages, as originally filed					
		pages , filed with the demand					
		pages, received on with the letter of					
2.	which the international These elements v	Vith regard to the language, all the elements marked above were available or furnished to this Authority in the language in thich the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language which is:  The language of a translation furnished for the purposes of international search (under Rule 23.1(b)).					
	the langua	the language of publication of the international application (under Rule 48.3(b)).					
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).					
3.		th regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international oreliminary examination was carried out on the basis of the sequence listing:					
	contained	in the international application in written form.					
	filed toget	ther with the international application in computer readable form.					
	furnished	subsequently to this Authority in written form.					
	furnished	subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
	The staten	nent that the information recorded in computer readable form is identical to the written sequence listing has ished					
4.	The amen	dments have resulted in the cancellation of:					
	ti	he description, pages					
	ti	he claims, Nos.					
	ti	he drawings, sheets/fig.					
5.		rt has been established as if (some of) the amendments had not been made, since they have been considered to d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).						
**	Any replacement sheet containing such amendments must be referred to under item I and annexed to this report						



v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations
	and explanations supporting such statement

1.	Statement	<del></del>		
	Novelty (N)	Claims 1	to 34	YES
		Claims		NO
	Inventive step (IS)	Claims 1	to 34	YES
		Claims		NO
	Industrial applicability (IA)	Claims 1	to 34	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

D1) WO 99/45408

D2) WO 96/30913

D3) US 5365171

D4) GB 2254923

**NOVELTY AND INVENTIVE STEP: CLAIMS 1-34** 

None of the documents cited disclose all of the features defined in any of your claims. In particular disclosing a method or apparatus of a NQR scanner for detecting the presence of a substance containing quadrupole nuclei within an object comprising; a pulse generating means; a high power RF transmit amplifier; a high Q tuneable coil; a power matching unit; an electromagnetic shield around the coil; a tuning sub-system to determine if the introduction of the object into the scan volume altered the resonant frequency of the scanning for the substance, and to retune the scanner to the requisite resonant frequency; a Q switch that reduces coil ring down time to allow measurement of the NQR signal; an amplifier on the received signal path; a processing means to separate out the phase and amplitude and control the pulse generating means; an isolator; a comparator of the phase and amplitude of the received signal with a known range or prescribed threshold; and a detection means to detect whether the measured signal corresponds to a NQR signal emitted by the nuclei of the substance being tested, and if present issue an alarm to notify the operator of the scanner that quadrupole nuclei has been detected within the object. As a result the claims are all considered to be both novel and inventive.

INDUSTRIAL APPLICABILITY: CLAIMS 1-34

The claims clear satisfy the criterion of industrial applicability.